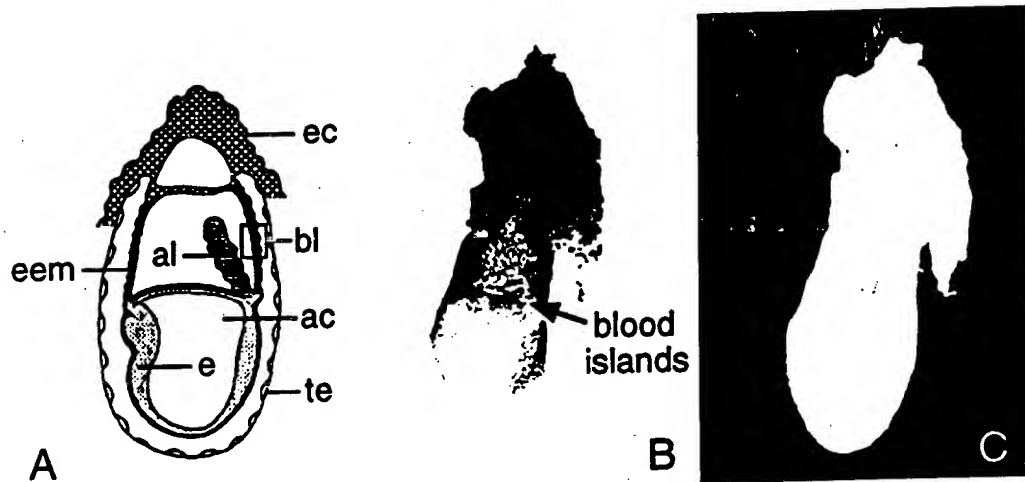


FIG. 1

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## Development of the Yolk Sac Circulatory System



**7.5 days pc**  
**blood islands**



**8.5 days pc**  
**vascular channels**



**12.5 days pc**  
**vitelline circulation**

**FIG. 2**

F

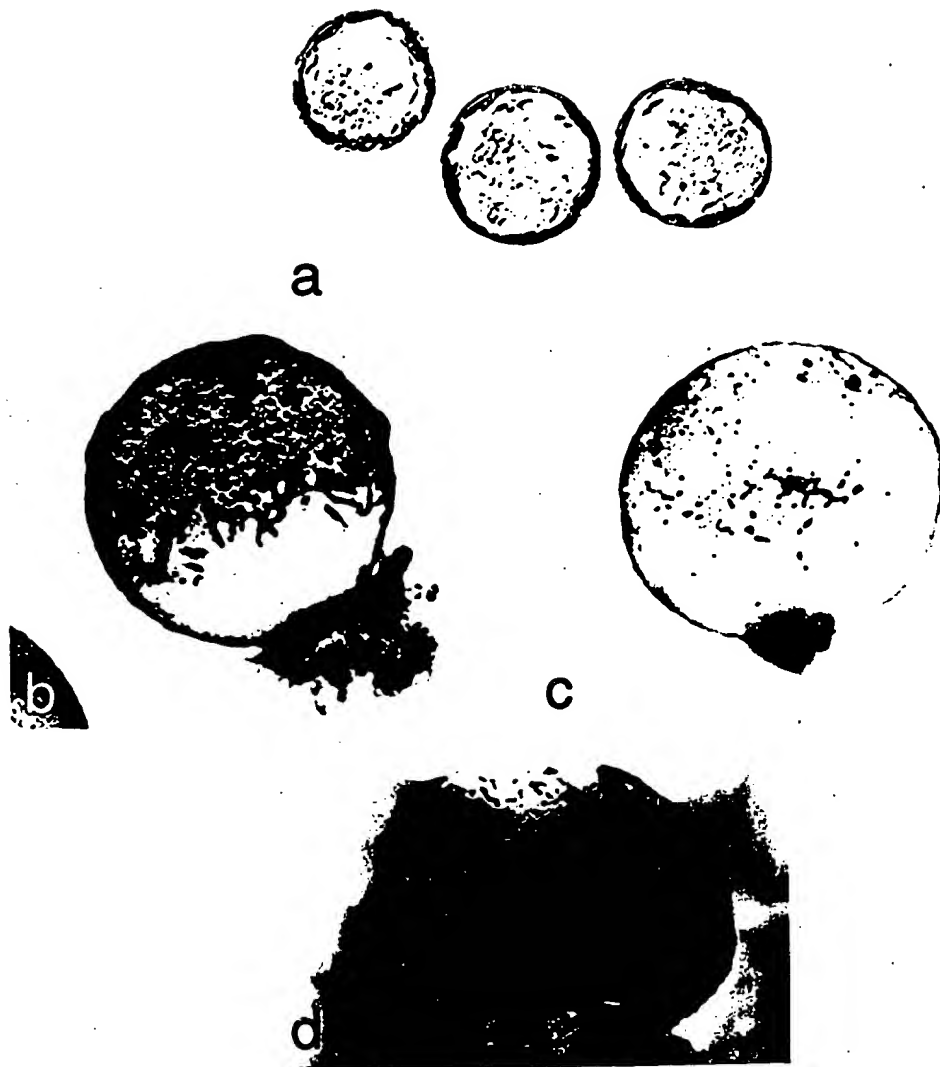


FIG. 3

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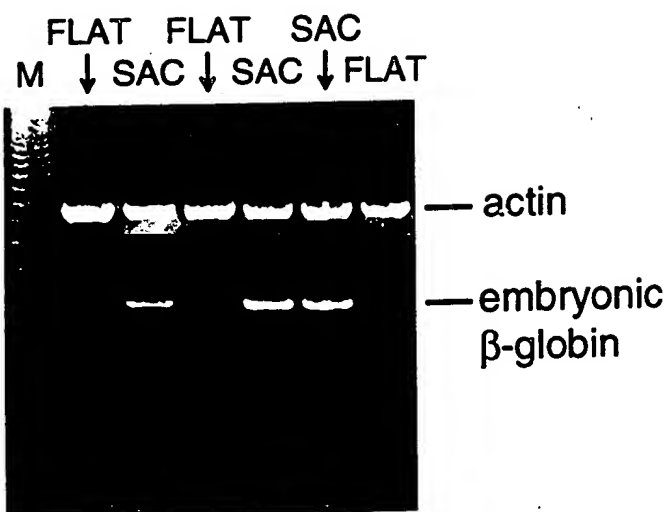


FIG. 4



FIG. 5

F



FIG. 6

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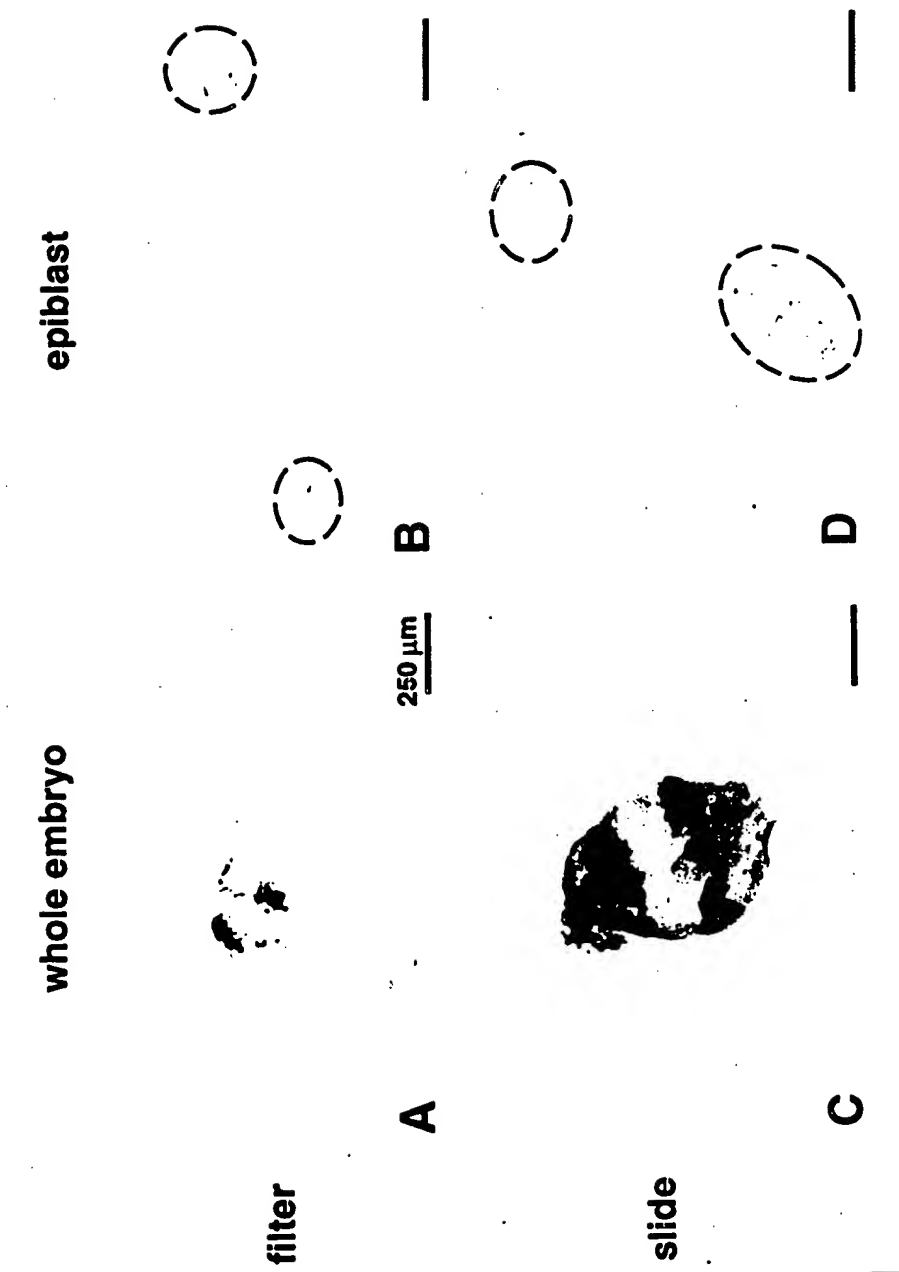


FIG. 7

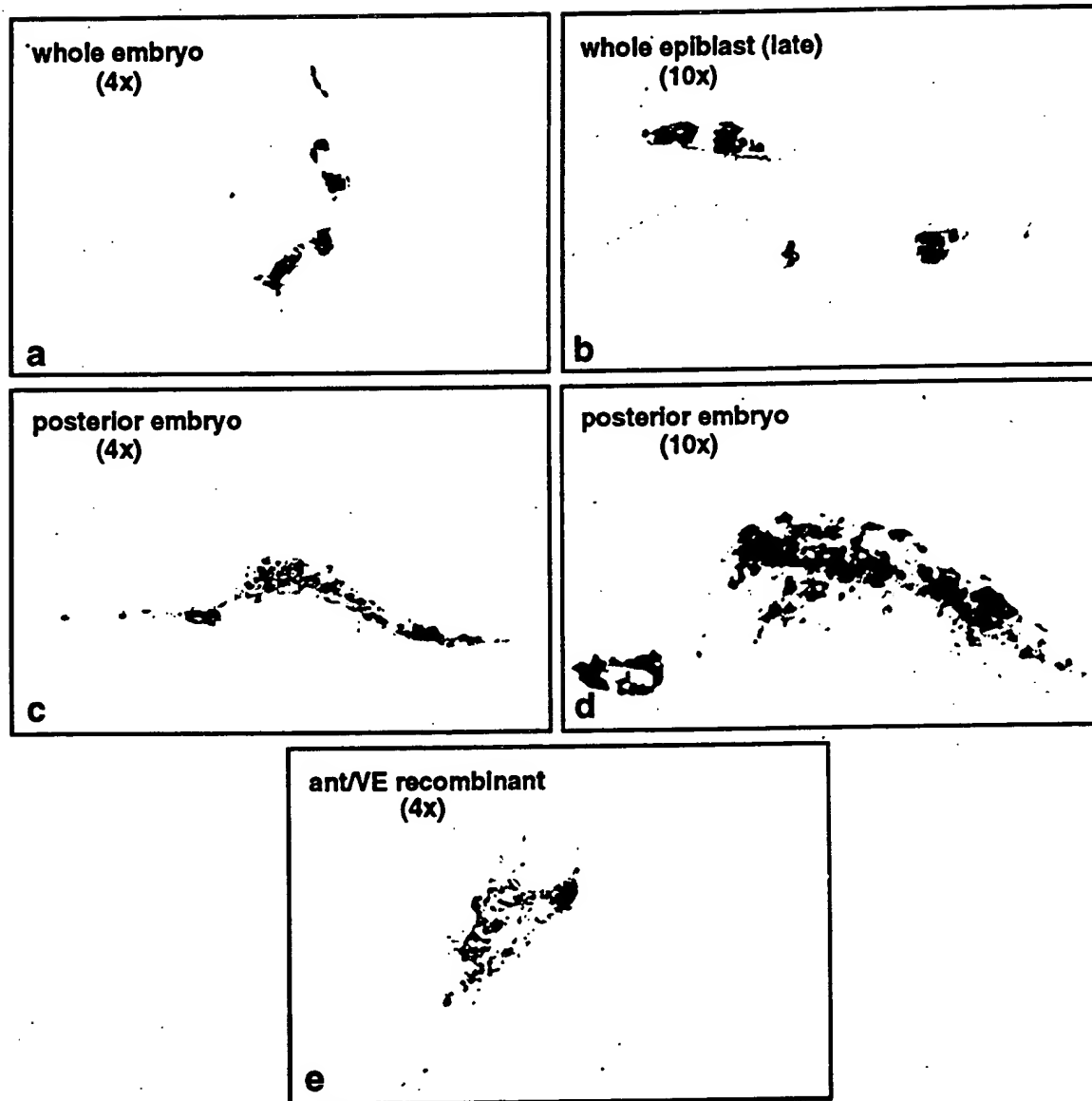


FIG. 7-1

F

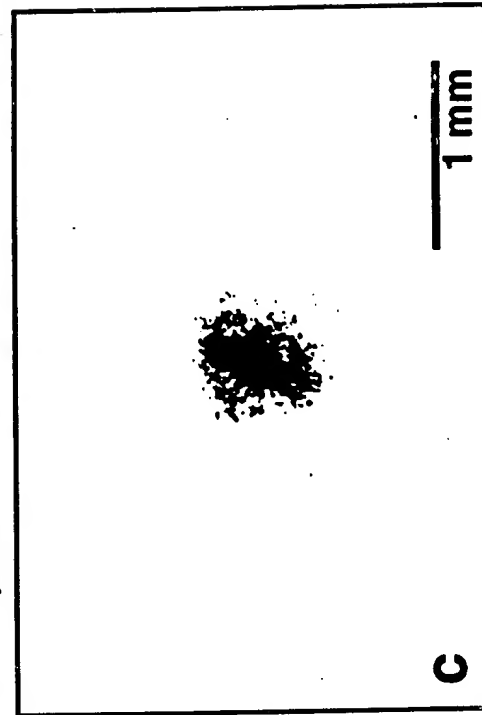
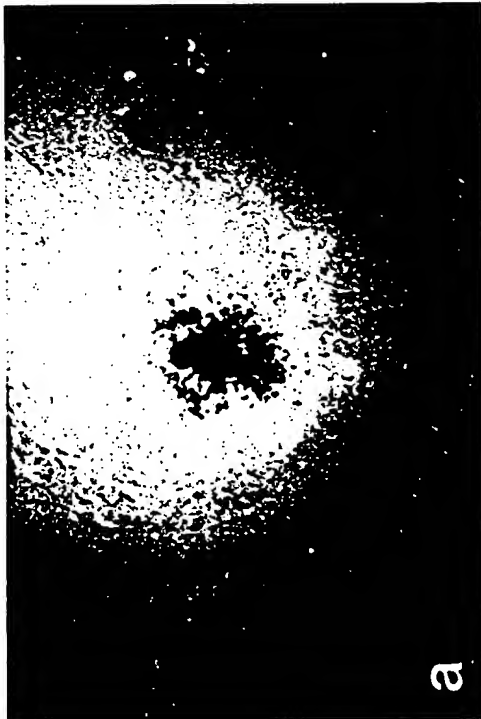
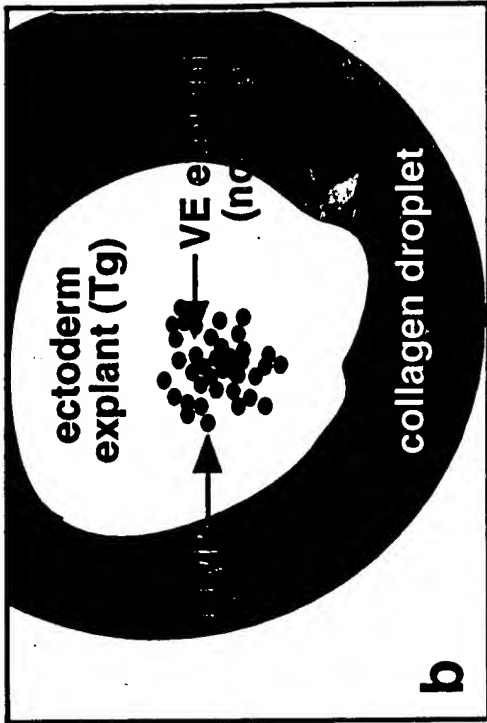


FIG. 8-1

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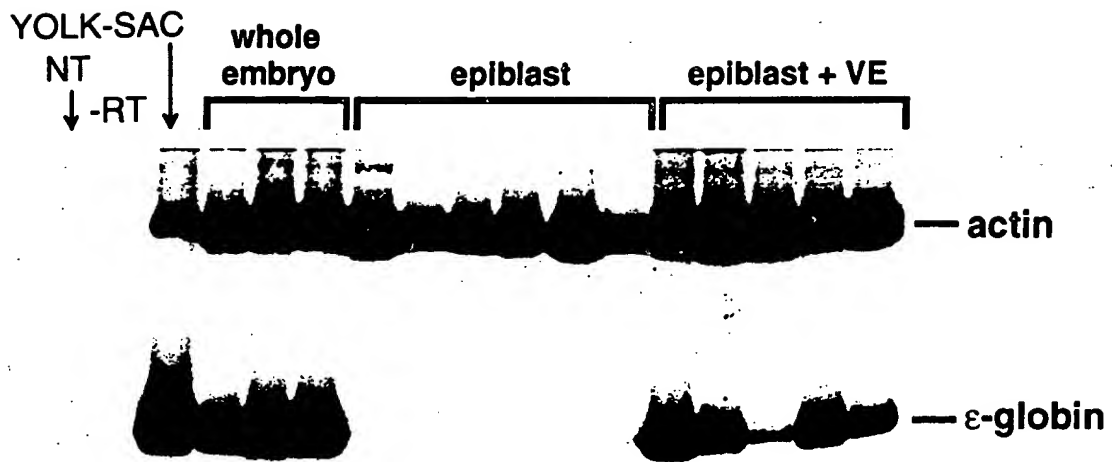


FIG. 8-2

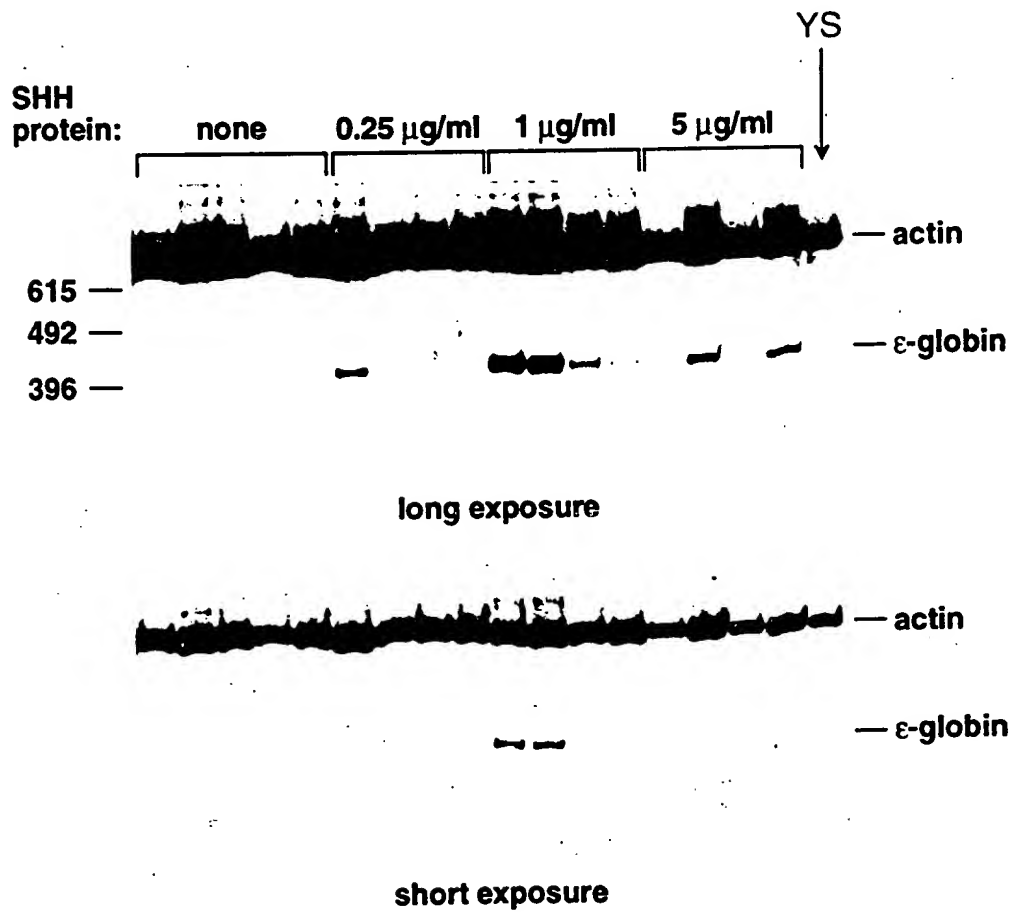


FIG. 9

F

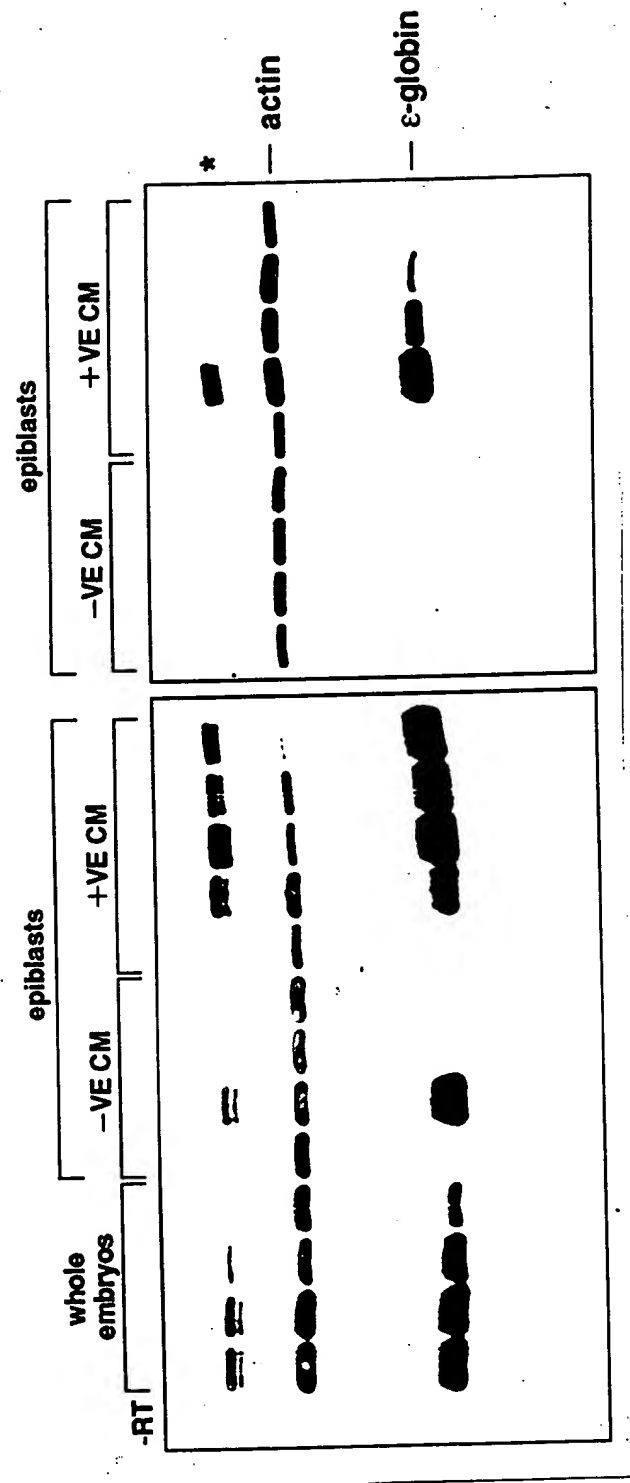


FIG. 10

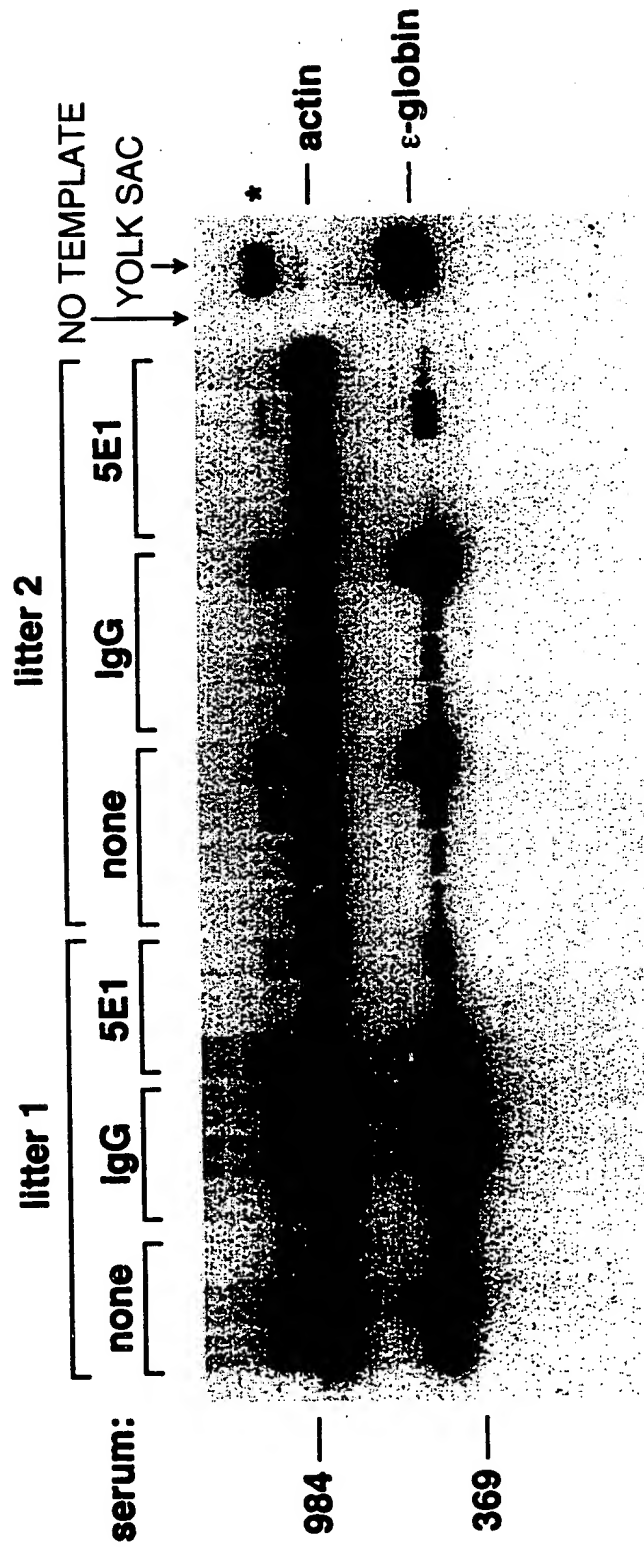


FIG. 11

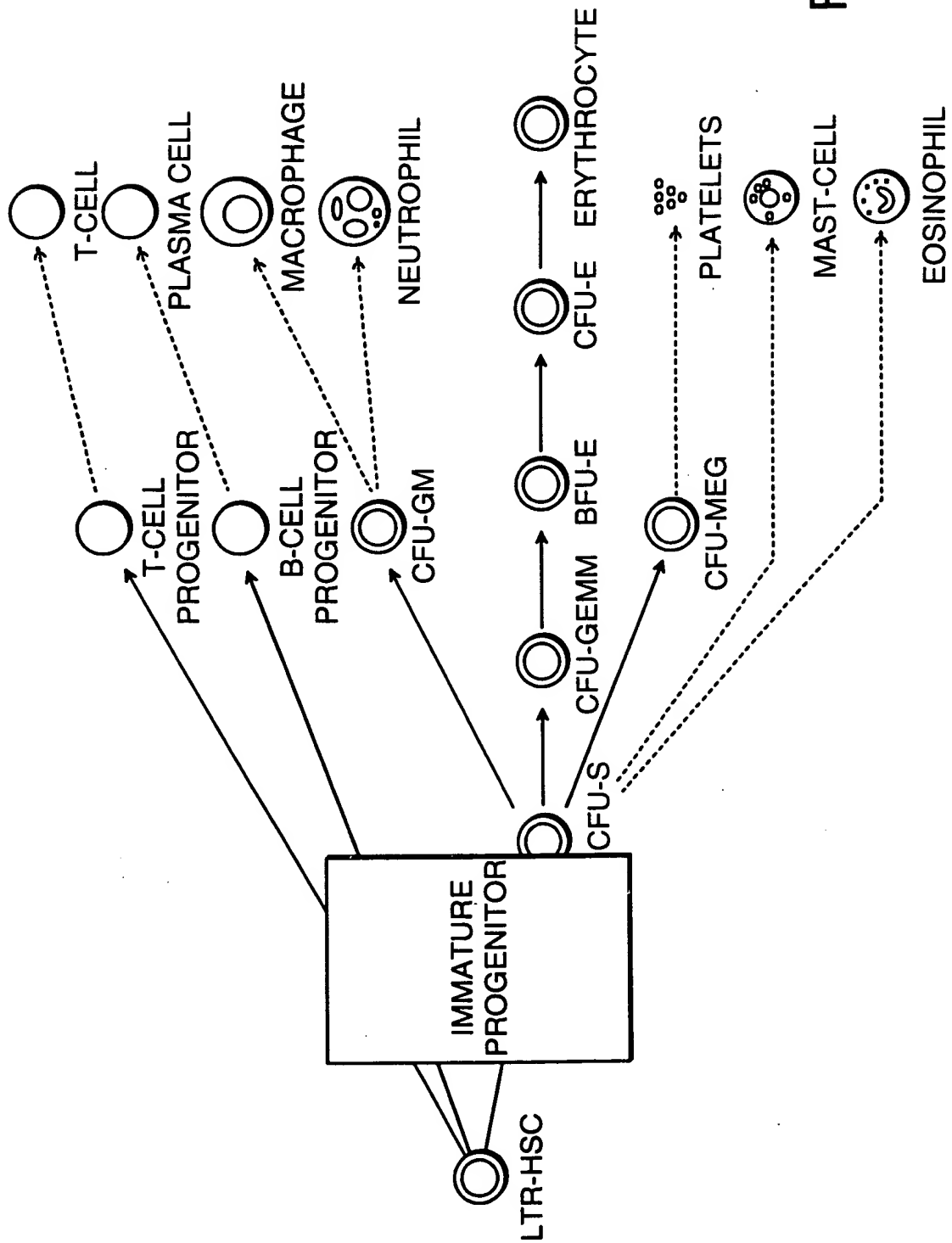


FIG. 12

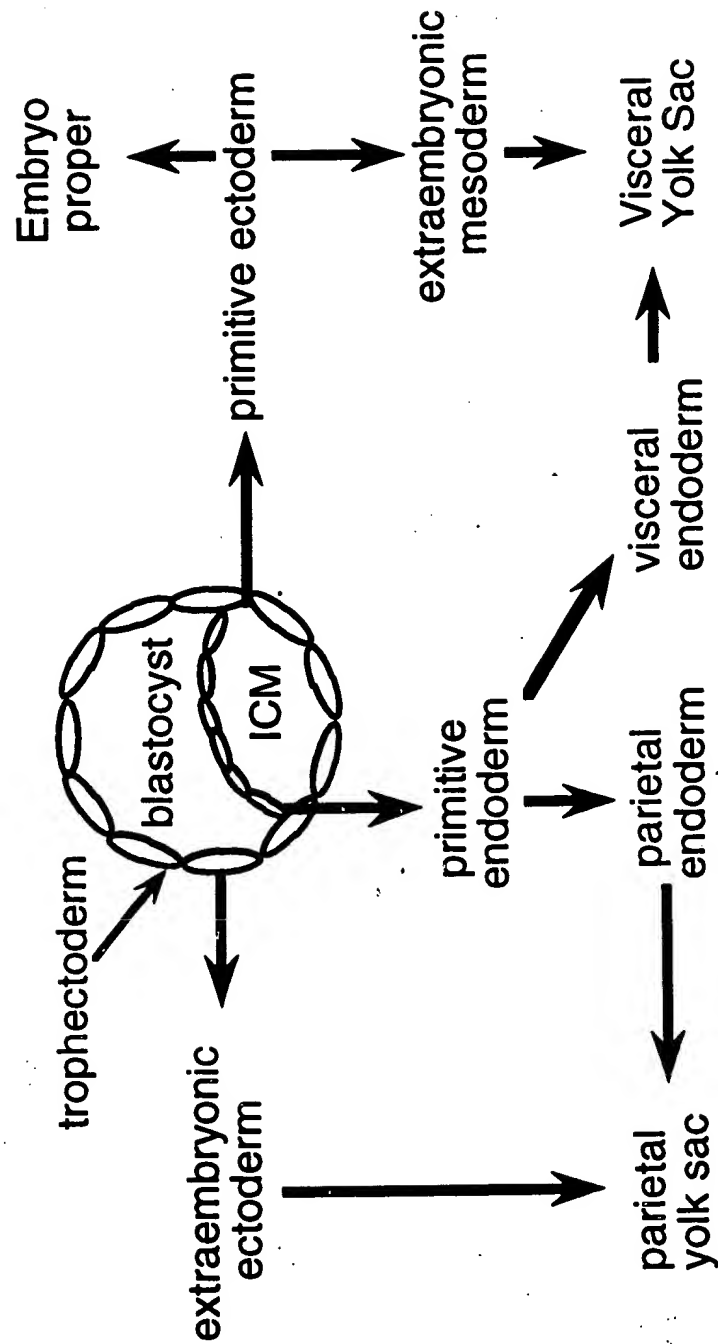
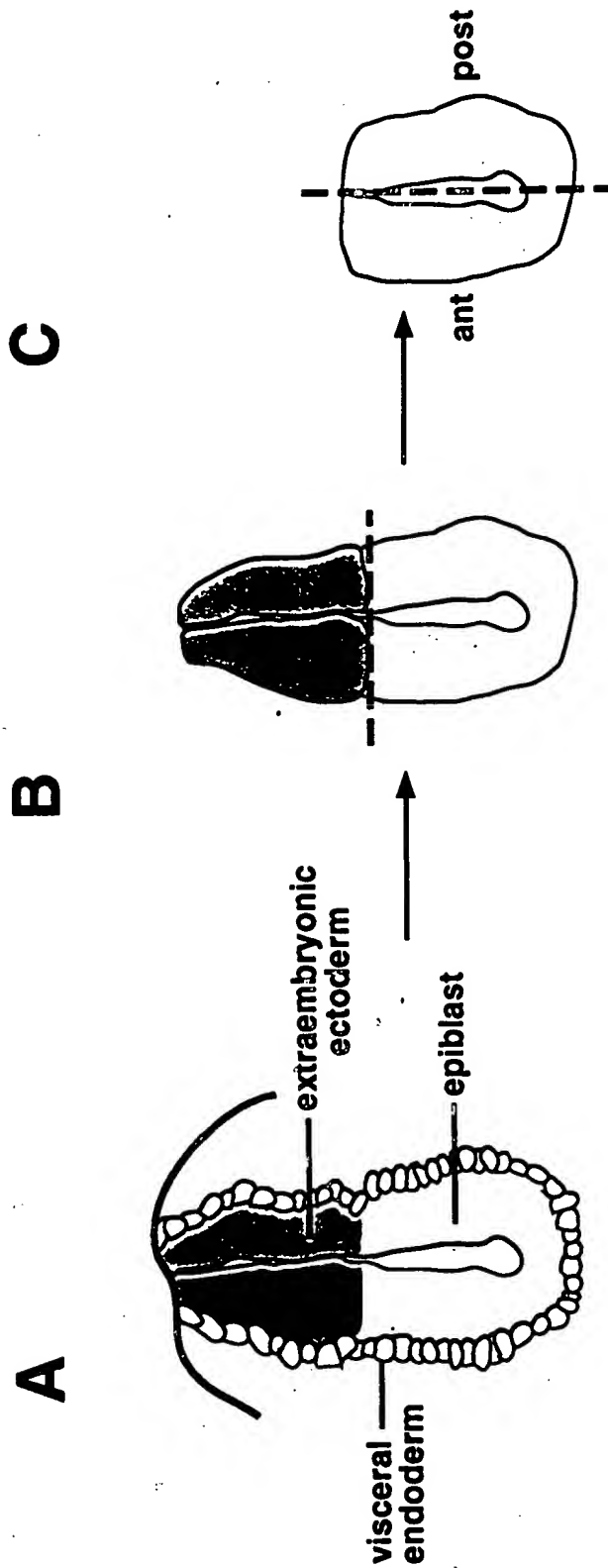


FIG. 13



Separation of epiblast into anterior and posterior portions

FIG. 15

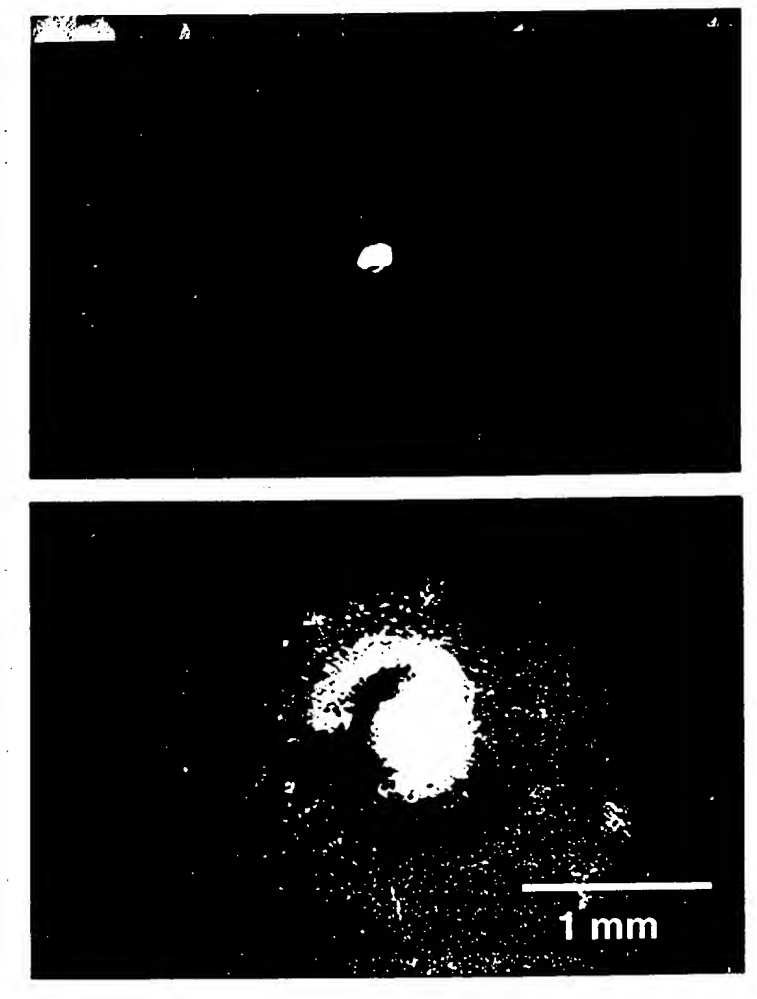


FIG. 16-1

F

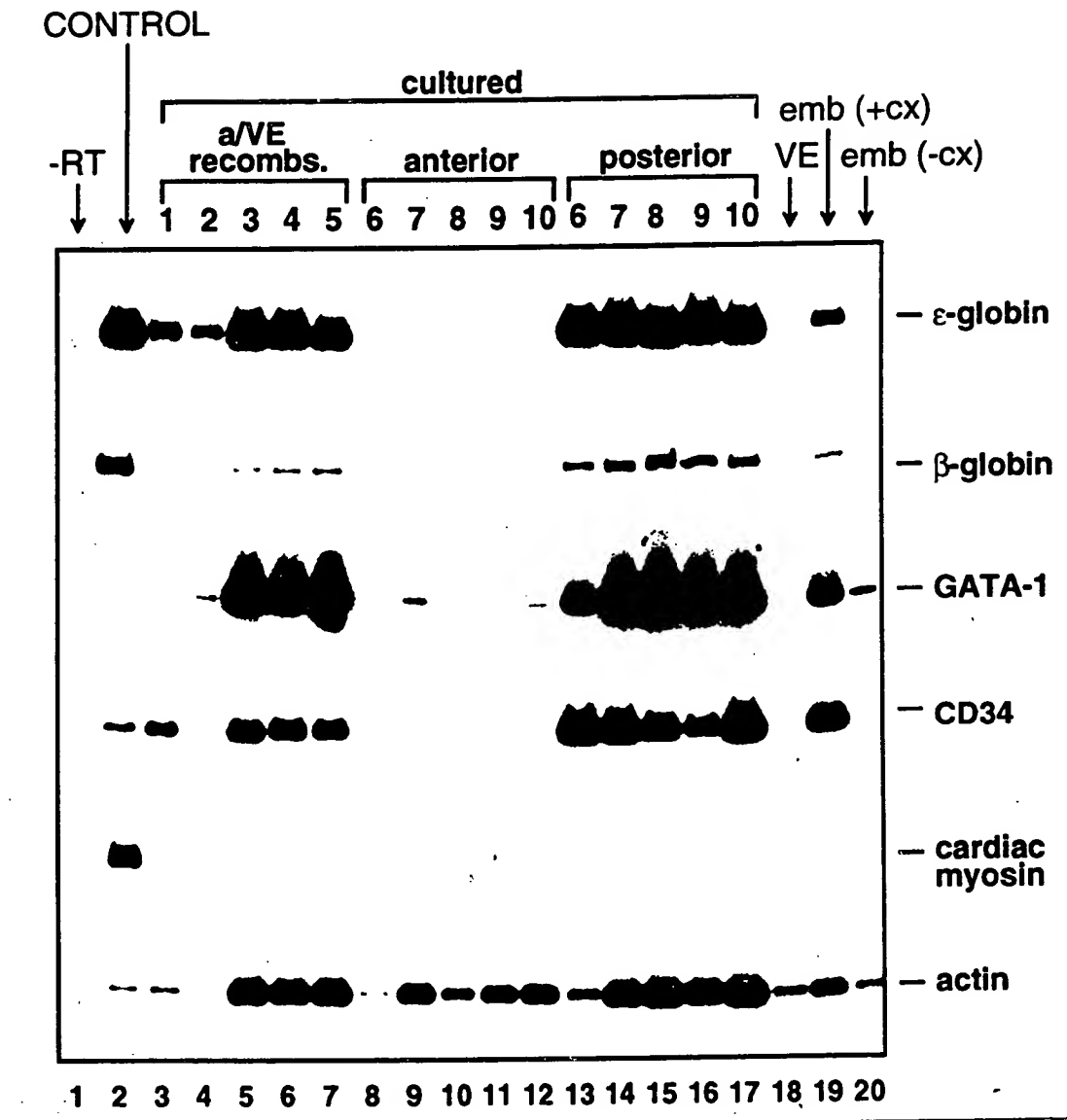


FIG. 16-2

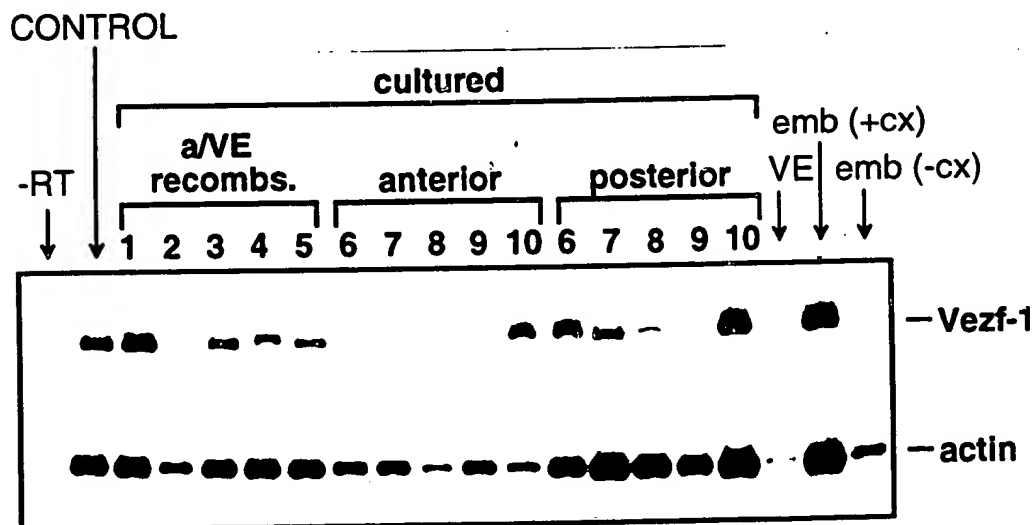
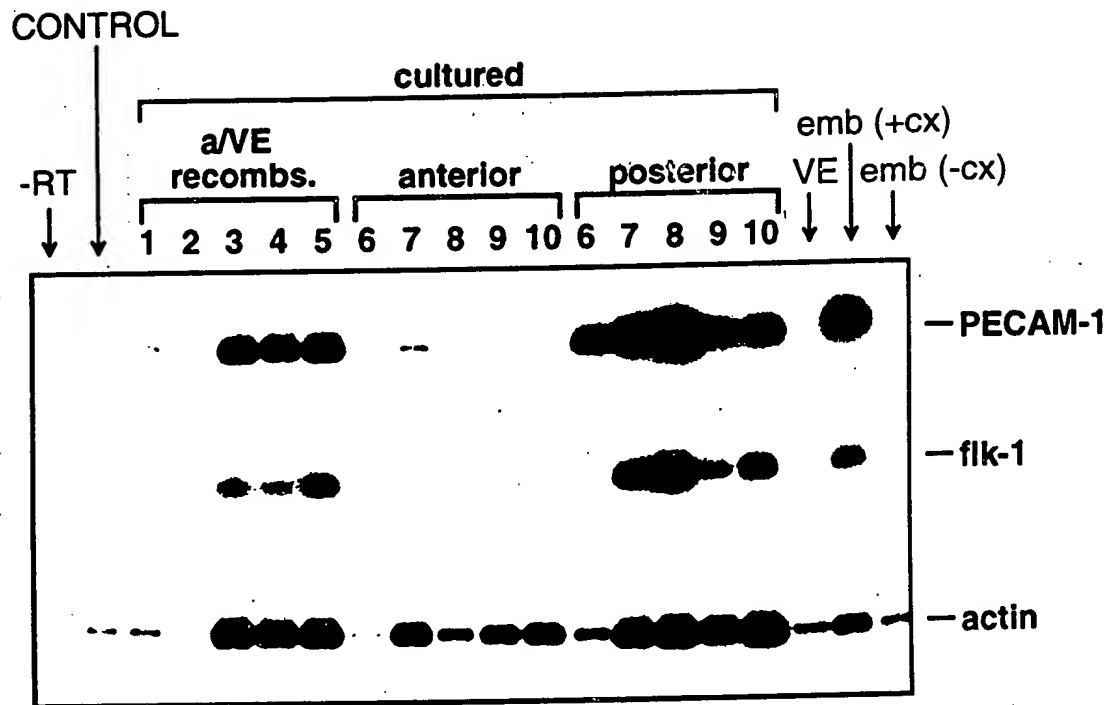


FIG. 16-3

**Rescue of null mutant phenotype by BMP-4**

	# containing hemoglobin	total # EBs	percent hemoglobinized
wt parental	225	260	86.5
mutant ( - BMP-4)	2	50	4.0
mutant ( + BMP-4)	42	72	58.5

**A****wt****B****mut (-BMP-4)****C****wt****D****mut (+BMP-4)****FIG. 17**

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